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SNOW SURVEYS AND IRRIGATION WATER FORECASTS
for the
MISSOURI and ARKANSAS
DRAINAGE BASINS

February 1, 1944

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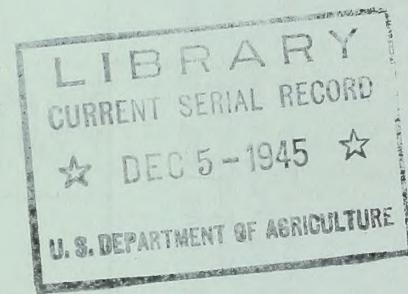
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Issued by the
United States Department of Agriculture
Soil Conservation Service
Division of Irrigation
In Cooperation with
The Colorado Agricultural Experiment Station
Colorado State College
Fort Collins, Colorado

February 10, 1944

SNOW SURVEYS AND IRRIGATION WATER FORECASTS
FOR MISSOURI AND ARKANSAS RIVERS

February 1, 1944

The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the Division of Irrigation, Soil Conservation Service, of the U. S. Department of Agriculture, in cooperation with State departments, other Federal bureaus and local organizations. The snow measurements are made principally by field personnel of the following organizations: Forest Service, National Park Service, Bureau of Reclamation, U. S. Geological Survey, War Department and State Experiment Stations. This work is otherwise conducted cooperatively with the State Engineers of Wyoming, Nebraska and Colorado, and various municipalities, irrigation associations, power companies and others. Precipitation records are supplied by the U. S. Weather Bureau.

PRECIPITATION DATA

WATERSHED	STATE	Precipitation		Departure		Precipitation January Inches	Departure from Normal Inches		
		October 1 to January 31		from Normal Inches					
		Inches	Inches	-0.31	0.27				
Missouri	East. Mont.	2.15					-0.25		
Missouri	Cent. Mont.	1.68		-1.45	0.13		-0.55		
Missouri	North Wyo.	3.18		-0.63	0.56		-0.16		
North Platte	Wyoming	2.45		-1.02	0.66		-0.22		
South Platte	Colorado	2.47		-1.23	0.74	+0.08			
Arkansas	Colorado	2.66		-0.51	0.78		-0.20		

Precipitation over the watersheds of the Missouri and Arkansas Rivers in Montana, Wyoming and Colorado has been below normal since October 1. January precipitation also was below normal except over the South Platte drainage in Colorado. The shortage was most pronounced in central Montana where the deficiency in January was 0.55 inch and the accumulated deficiency since October 1 was 1.45 inches.

SUMMARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF DATA

WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

WATERSHEDS	Number courses in average						Snow Density						1944 Water Content in			
	Snow Depth			Water Content			Nine Year Avg.*			1943			1944		Percent of	
	Nine Year Avg.*	1943	1944	Nine Year Avg.*	1943	1944	In.	In.	In.	In.	In.	In.	Nine Year Avg.*	Avg.*	1943	1944
MISSOURI RIVER	In.	In.	In.	In.	In.	In.										
Jefferson River	27.7	48.1	15.7	6.7	12.7	3.0	3	6	3	24	19	45	45	24	24	
Madison River	44.3	74.5	25.6	11.4	23.7	5.6	26	32	22	28	21	49	49	24	24	
Gallatin River	26.8	39.9	19.8	6.3	11.1	4.1	3	4	24	24	22	65	65	37	37	
Missouri River**	21.0	36.0	10.8	5.0	9.6	2.4	1	4	24	27	22	48	48	25	25	
Marias River	31.8	54.0	18.6	9.3	15.4	4.6	1	2	29	29	25	49	49	30	30	
Shoshone River	44.6	79.2	27.8	12.0	23.6	5.4	2	2	27	30	19	45	45	23	23	
Bighorn River	28.1	55.6	20.4	6.4	15.2	3.3	9	1	23	27	16	52	52	22	22	
Cheyenne												—	—	—	—	
North Platte River	44.7	52.3	31.7	11.0	13.9	6.8	1	8	25	27	21	62	62	49	49	
Sweetwater River	32.3	55.6	24.9	7.3	14.9	4.6	2	2	23	27	18	63	63	31	31	
Laramie River	25.7	36.3	17.1	6.1	10.3	3.4	9	3	24	28	20	56	56	33	33	
South Platte River**	17.6	23.3	12.6	3.0	5.5	1.3	3	1	17	24	10	43	43	24	24	
Crow Creek	13.5	9.1	11.5	2.7	1.8	1.8	1	1	20	20	16	67	67	100	100	
Poudre River	25.3	35.3	15.1	6.2	9.8	3.4	7	2	25	28	23	55	55	35	35	
Big Thompson River	35.2	47.8	21.8	8.8	13.6	4.0	2	2	25	28	18	45	45	29	29	
St. Vrain River	26.6	41.8	15.0	6.1	12.2	2.7	1	1	23	23	18	44	44	22	22	
Boulder Creek	20.4	28.0	12.2	5.5	9.4	2.3	2	2	27	34	19	42	42	24	24	
Clear Creek	32.4	47.1	21.0	7.4	12.6	4.2	2	2	23	27	20	57	57	33	33	
ARKANSAS RIVER	27.1	34.8	21.5	5.7	7.7	3.8	9	21	22	18	18	67	67	49	49	

*Some for shorter periods.

**Headwaters of Missouri River

***Above Denver, Colo.

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WATER SUPPLY OUTLOOK

MONTANA. Generally over the Missouri and tributary drainages the present snow cover will average about $\frac{1}{4}$ to $\frac{1}{3}$ of that a year ago. Throughout this area last year at this time the snow depths and water content were near a record high. The lesser depths now observed, approximate the normal for this time of year. The present water content of snow on the Gallatin River watershed is slightly more than one-half the amount a year ago. Stream flow generally is below normal at this time and soil moisture poor to fair. The reservoir storage for irrigation is generally comparable to that of last year at this time. The combined storage in the Sherburn, Fresno and Nelson reservoirs is now 128,000 acre-feet as compared with 115,000 a year ago, Willow Creek Reservoir 18,000 acre-feet which equals that of last year, Martinsdale and Durand now total 15,000 acre-feet, last year 18,000.

WYOMING. Snow cover over the Big Horn drainage at this time is only one-fourth of that a year ago and approximately one-half of the 9-year average for this time of the winter. For the upper Wind River country, Togwotee Pass and Brooks Lake area, the present water content of the snow is but 6.3 inches as compared with nearly 30 inches a year ago. Present water content is slightly less than one-half the 9-year average. Reservoir storage in the vicinity of Lander is now about 117,000 acre-feet as compared with 82,500 last February, or 40 percent greater. Soil moisture near Riverton and Worland is fair to good, especially the top soil. Farming area is now covered with 6 to 12 inches of snow which will add to the ground moisture storage. Range conditions are reported to be fair. The water supply outlook from the standpoint of snow is not especially good at this time, however, because of the present extent of storage the situation is not alarming.

On the North Platte drainage both in Colorado and Wyoming, the same general deficiency in snow cover prevails. The first-of-the-month snow surveys show the water content to be about one-half of that a year ago and somewhat more than one-half the February-first average. There is now in storage in the principal reservoirs on the North Platte, in Wyoming, a little more than 1/2 million acre-feet of water which is about the same as last year. Run-off this spring should improve the storage very materially. The Laramie River watershed now is quite deficient of snow cover, about one-third that of last year and slightly less than one-half the average for this time of year. Storage in the Wheatland Reservoir is 29,000 acre-feet as compared with 34,000 a year ago. In both the North Platte and Laramie River drainage basins the soil moisture condition in irrigated areas, is fair to good at the surface due to the present snow cover. Stream flow in the North Platte basin and upper Larimie is below normal while for the lower valley the flow conditions are better. At the present time the snow in the mountain country on these two watersheds is quite unfavorable as to next year's irrigation supply.

The snow conditions in the Black Hills area, South Dakota as indicated by surveys on the courses established last year on the Black Hills National Forest, are encouraging from a water supply standpoint. Storage in the Belle Fourche Reservoir is now 95,000 acre-feet as compared with 120,000 a year ago.

COLORADO. Over the watershed of the upper South Platte the water content of the snow is about one-quarter in comparison with last year and approximates one-half the average for this time of the year. Reservoir storage in this section of the drainage area totals 183,000 acre-feet as against 186,000 a year ago. The recent snow surveys over the tributary watersheds to the South Platte show the water content to be only one-quarter to one-half of that last year at this time and in comparison with the average is only one-half as much. Reservoir storage in these tributary areas is 70 percent of the amount held a year ago. The heavy precipitation during October 1942 resulted in a good runoff which very greatly added to the filling of these reservoirs. Because of the above-average amount of water in storage a year ago, the storage now is near, if not greater, than the normal filling for this time of year. The storage in the lower South Platte Valley is likewise 70 percent of that of last February first and is approximately normal or better for the period of the season. Stream flow appears to be normal generally over the whole of the South Platte basin. Eastern plains area has a fairly good snow cover which improves the crop prospect, both grain and pastures. The over-all water supply outlook for the South Platte, as based on snow cover is at this time not favorable. Reserve storage in reservoirs now, however, improves the prospects for this coming irrigation season.

For the Arkansas drainage the water content of the mountain snow now measures about one-half of that a year ago and is two thirds of the average for this time of the year. Reservoir storage, both mountain and plains, is now 40 percent of that a year ago which was near an all time high. The present filling is estimated to be about normal. Stream flow in the main river tributaries is normal for this time of the year, except the Fountain which is at a low stage. The soil moisture throughout the valley is good and the recent storms over the eastern sections will further improve conditions especially pasture lands in the dry farming areas.

The general irrigation water supply outlook in Montana, based on snow cover, is not especially encouraging at this time, however, reservoir storage is practically normal. Although the snow cover is light, the prospects for irrigation water in Wyoming are fairly good because reservoir storage is generally above average. Shoshone Reservoir is expected to fill to capacity. The North Platte reservoirs with one-half million acre-feet now in storage are a substantial factor in the water supply situation for the coming season. Big Horn drainage has more water in storage than last year at this time but snow cover is light. For the South Platte drainage area the outlook is rather discouraging. There is a reasonable amount of water in storage but there is very little snow in the mountains. For the Arkansas the prospect at this time are not overly encouraging because reservoir storage is only fair and snow cover is short.

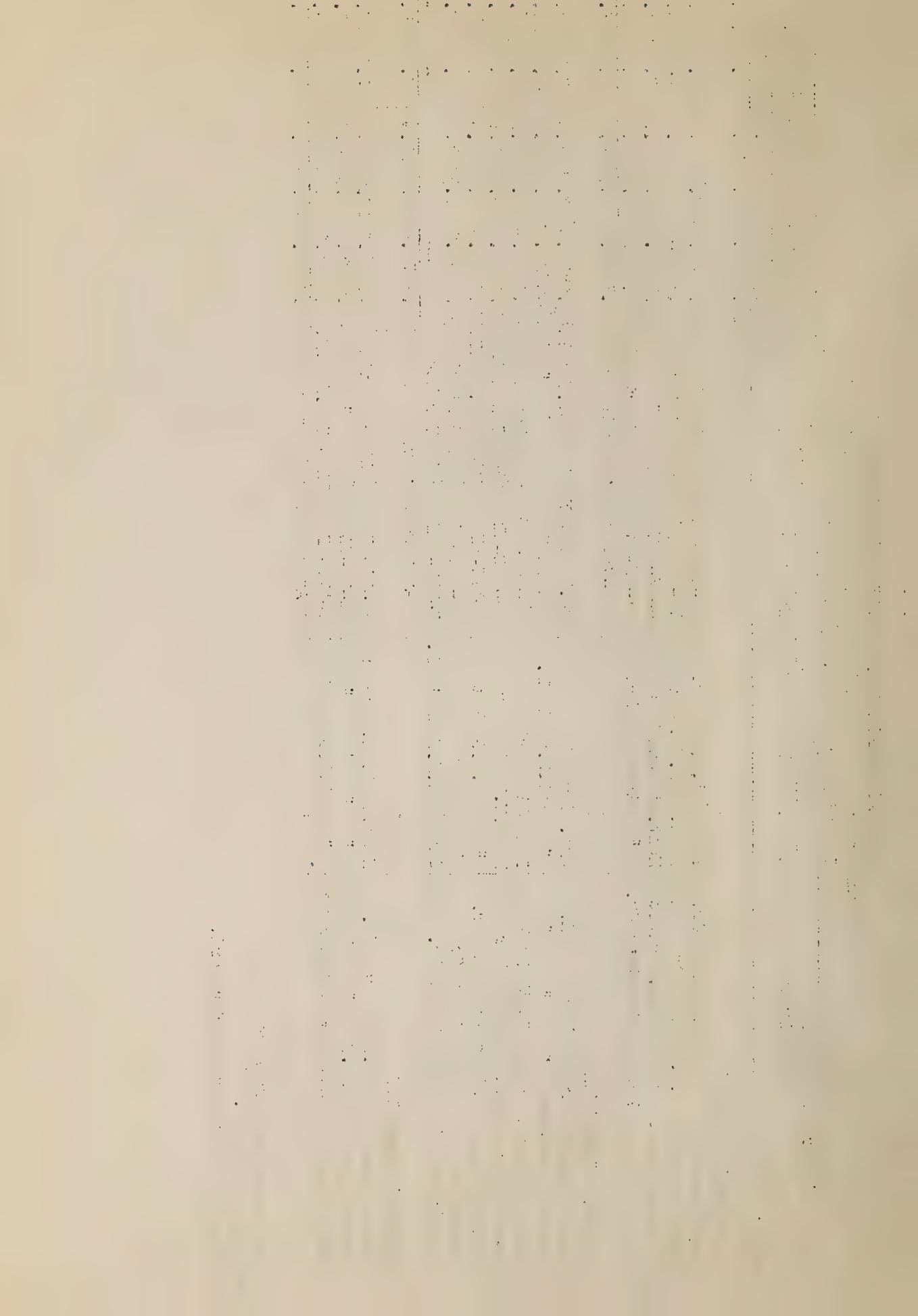
MISSOURI AND ARKANSAS RIVER WATERSHEDS
 Summary of Federal and State Cooperative Snow Surveys
 Issued February 10, 1944, at Fort Collins, Colo.

Main Drainage and Snow Course No.	Local Drainage	State	Location	Locality	Description	Feb. 1 Snow Cover Measurements					
						Elay.	National Forest	Av. @ 1943	1944	Av. @ 1943	1944
JEFFERSON RIVER											
6 Camp Creek*	Red Rock Cr.	Idaho	6mi.N.Spencer	21-13N-36E	6800	Targhee	24.0	41.9	13.4	5.2	9.8
7 East Fork R.S.	Rock Creek	Mont.	13mi.N.E.Sula	16-2N-17W	5400	Bitterroot	13.5	—	8.0	2.0	—
10 Gibbons Pass	N.Fk.Big Hole	Mont.	Gibbons Pass	4-2S-19W	7100	"	45.0	78.6	27.0	12.1	23.4
30 Pipestone Pass	Pipestone Cr.	"	Pipestone Pass	11-13-7W	7200	DeerLodge	14.2	23.8	6.8	2.8	4.9
MADISON RIVER					Average for Drainage	27.7	48.1	15.7	6.7	12.7	3.0
2 Aster Creek*	Firehole R.	Wyo.	Lewis Lake	44.3N110.6W	7700	Yel.Nat.P.	45.9*	77.0*	28.9*	13.3*	27.0*
8 Lewis L.Divide*	"	"	3mi.S.Lewis L.	44.2N110.7W	7900	"	46.0	68.8*	39.6*	20.0*	42.0*
3 Big Springs*	South Fork	Idaho	Big Springs	34-14N-44E	6500	Targhee	45.5	82.4	29.3	11.2	23.9
16 West Yellowstone	South Fork	Mont.	W.Yellowstone	34-13S-5E	6700	Gallatin	30.1	61.0	15.3	6.8	16.5
Twenty-one Mile*	Greyling Cr.	"	Gmi.S.Gallatin	1-11S-5E	7150	Yel.Nat.P.	37.7	71.0	23.9	9.4	20.8
Hebgen Dam	Cabin Creek	"	Hebgen Dam	22-11S-33	6550	Gallatin	32.8	47.0	16.3	7.4	12.2
Valley View	Denny Cr.	Idaho	5mi.E.Henry's L.	7-15N-44E	6500	Targhee	—	—	—	—	—
GALLATIN RIVER					Average for Drainage	44.3	74.5	25.6	11.4	23.7	5.6
Mystic Lake No.1	Bozeman Cr.	Mont.	12mi.SE.Bozeman	31-3S-7E	6600	Gallatin	22.8	26.9	18.4	5.1	7.5
Mystic Lake No.2	"	"	"	31-3S-7E	6600	"	20.0	21.8	17.0	4.4	5.0
Twenty-one Mile	Gallatin River	"	Gmi.S.Gallatin	1-11S-5E	7150	Yel.Nat.P.	37.7	71.0	23.9	9.4	20.8
				Average for Drainage	20.8	39.9	19.8	6.3	11.1	4.1	

*On adjacent drainage

† Readings Jan. 17

©Average for period of record.



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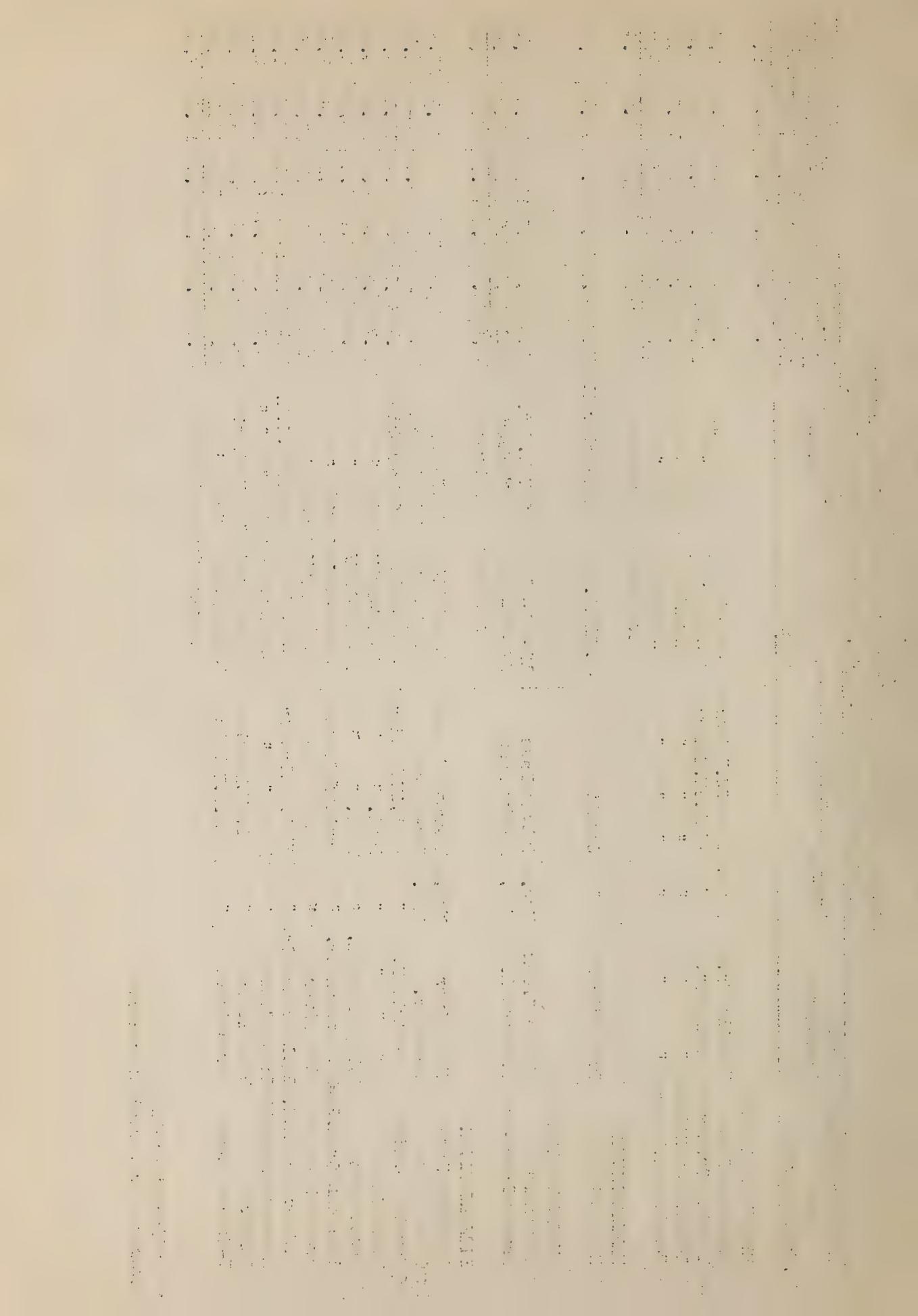
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							Av. Depth		Av. Water Content		Av. @ 1943		Av. @ 1944	
							In.	In.	In.	In.	In.	In.	In.	In.
MISSOURI RIVER														
6 Chessman Res.	Tennile Cr.	Mont.	11mi.SW.Helena	2-SN-5W	6200	Helena	11.6	23.0	4.0	2.7	5.8	0.8		
41 Tennile Cr.Lower	Tennile Cr.	"	17mi.SW.Helena	13-SN-6W	6250	"	18.4	32.0	8.6	4.1	8.2	1.6		
42 Tennile Cr.Middle	"	"	"	13-SN-6W	6300	"	24.9	42.0	13.6	5.8	11.0	3.1		
43 Tennile Cr.Upper	"	"	"	19-SN-5W	8000	"	28.9	47.0	16.8	7.3	13.5	4.2		
MARIAS RIVER				Average for Drainage			21.0	36.0	10.8	5.0	9.6	2.4		
20 Marias Pass	Two Medicine	"	Summit	48.3M113.4W	5250	Glacier NF	31.8	54.0	18.6	9.3	15.4	4.6		
SHOSHONE RIVER														
32 Sylvan Pass	Middle Creek	Wyo.	Sylvan Pass	12-52N-110W	7100	Yel.Mt.P.	43.0	65.3	20.7	11.8	19.3	4.4		
50 Brooks Lake #3*	Shoshone R.	Wyo.	Brooks Lake	23-44N-110W	9200	Washakie	46.1	93.1	35.0	12.3	27.9	6.3		
BIGHORN RIVER				Average for Drainage			44.6	79.2	27.8	12.0	23.6	5.4		
12 Togwotee Pass	Wind River	Wyo.	Togwotee Pass	29-44N-110W	6500	Teton	93.8	53.5	—	—	32.3	13.3		
14 Dome Lake*	Goose Cr.	Wyo.	Dome Lake	11-53N-87W	8300	Bighorn	16.9	22.4	4.0	4.4	6.1	6.1		
45 Sawmill Glade	Popo Agie R.	"	13mi.SW.Lander	3-31N-101W	8500	Washakie	21.4	39.0	24.8	4.4	3.8	3.8		
46 Blue Ridge	"	"	"	23-31N-101W	9500	"	29.7	56.2	28.2	6.5	14.8	4.6		
47 South Pass	L.Popo Agie R.	"	19mi.	"	13-30N-101W	9000	"	31.9	57.6	23.1	7.1	15.5	3.6	
49 Sherican Cr.R.S.#2	Sheridan Cr.	"	16mi.NW.Dubois	3-42N-100W	7500	"	23.0	46.3	9.9	5.1	12.4	1.6		
50 Brooks Lake	Wind River	"	Wind River	23-44N-110W	9200	"	46.1	89.7	35.0	12.3	27.9	6.3		
51 St.Lawrence R.S.	St.Lawrence Cr.	"	27mi.NW.Lander	26-1N-4W	9000	Shos.I.R.	22.4	48.1	14.4	5.0	12.8	1.8		
52 Mosquito Park RS	Trout Creek	"	18mi.	23-2S-3W	9500	"	29.7	55.8	24.0	6.0	13.6	4.1		
53 DuNoir	Wind River	"	9mi.NW.Dubois	27-42N-108W	8750	Washakie	26.7	53.3	12.7	6.3	14.5	2.2		
54 E-Cross Ranch	Horse Creek	"	12mi.N.Dubois	1-43N-107W	8000	"	22.4	54.7	11.5	5.3	15.1	2.0		
	Average for Drainage						28.1	55.6	20.4	5.3	15.2	3.3		

*On adjacent drainage @ Average for period of

@Average for period of record

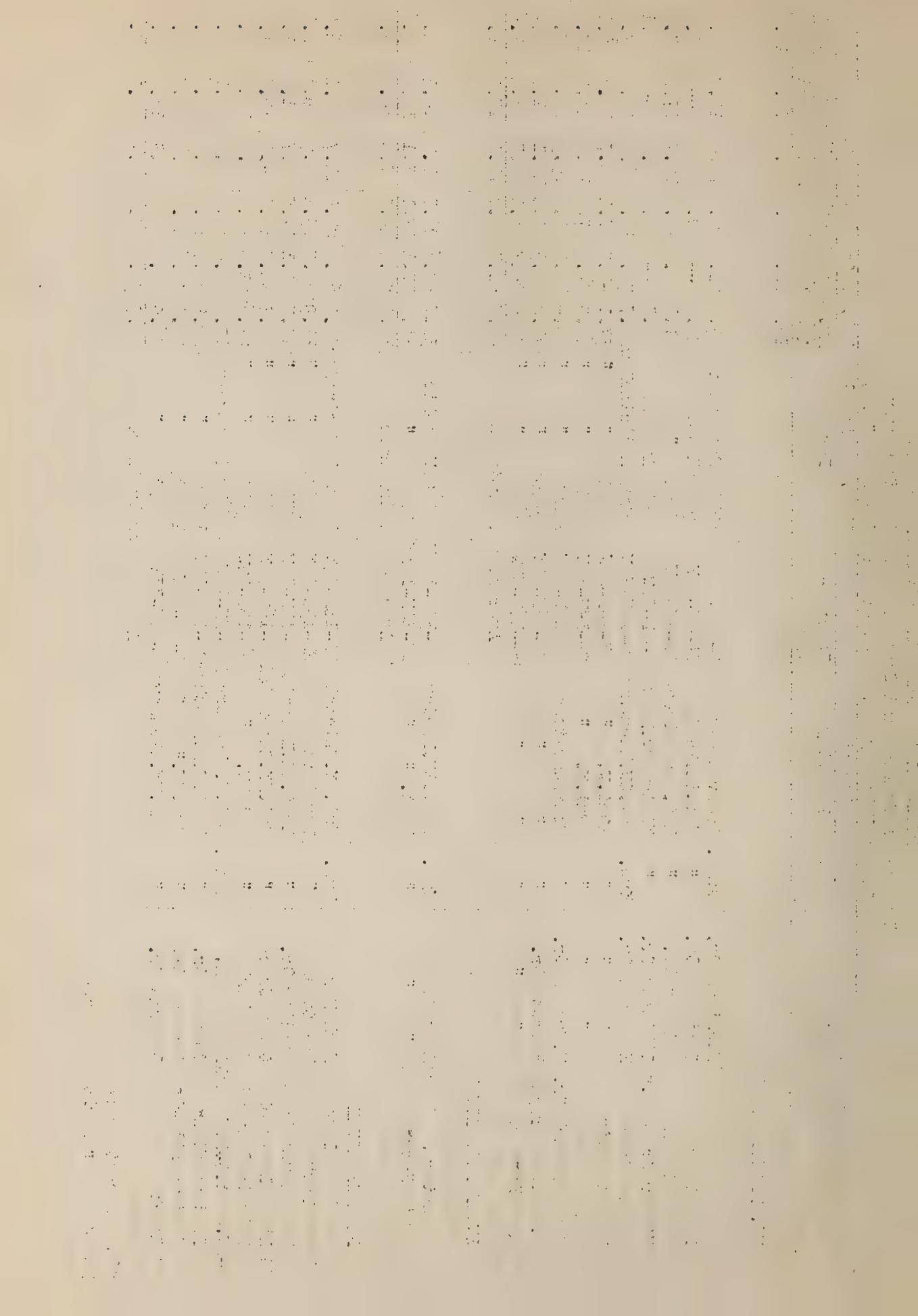


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Main Drainage and No. Snow Course	Local Drainage	State Locality	Location	Descrip- tion	Elev. National		Feb. 1 Snow Cover Measurements		Av. Snow Depth in. @ 1943	Av. Water Content in. @ 1943		
					Av. E. 1943		1944					
					In.	In.	In.	In.				
NO. PLATTE RIVER												
1 Cameron Pass		Colo.	Cameron Pass	2-65-76W	10300	Roosevelt	30.0	48.8	30.5	10.5		
7 Park View		"	7 mi. SE. Rand	24-52-78W	9200	Boult	26.6	—	20.0	4.7		
8 Columbine Lodge		"	3bt. Bear Pass	21-53-82W	9300	"	51.1	64.4	29.8	12.7		
62 Willow Creek F.*		Grizzly Cr.	"	1-4N-78W	9500	Arapaho	29.7	—	21.8	6.3		
7 Bottle Creek		Illinois Cr.	"	24-14N-85W	8200	Medicine Bow	29.7	39.2	18.2	6.8		
8 Webber Spring		Encampmt Cr.	"	27-14N-85W	9000	"	37.1	45.5	27.1	8.7		
9 Old Battle		"	"	29-14N-85W	9800	"	62.9	74.0	57.2	12.7		
37 North French Cr.		N. French Cr.	"	27-16N-80W	10200	"	59.4	70.5	40.1	16.4		
38 N. Barrett Cr. #2		Barrett Cr.	"	30-16N-80W	9400	"	47.0	46.3	29.8	11.1		
39 Ryan Park #2		"	"	34-16N-81W	8400	"	31.5	26.8	21.0	6.7		
SWEETWATER RIVER				Average for Drainage			44.7	52.3	31.7	11.0		
29 Grammer Meadows		Wyo.	Rock Creek	19-30N-100W	9000	Mashakie	32.7	53.6	26.7	7.5		
47 South Pass*		"	"	13-30N-101W	9000	"	31.9	57.6	23.1	7.1		
LARAMIE RIVER				Average for Drainage			32.3	55.6	24.9	7.3		
3 Brooklyn Lake		Wyo.	11-16N-79W	10200	Medicine Bow	39.9	61.9	29.5	14.3	5.5		
11 Fox Park		"	21-13N-78W	9200	"	21.9	24.5	13.1	4.9	6.1		
34 Pole Mountain	#2	Soldier Cr.	35-15N-72W	8700	"	"	13.5	9.1	11.5	2.7		
35 Libby Lodge	#2	Libby Creek	3mi. NW. Centennial	8700	"	"	20.8	38.3	10.2	4.6		
36 Hairpin Turn	#2	Nash Fork	129-16N-78W	9500	"	"	23.6	43.0	12.6	5.7		
4 W. Fort G.-P. Tunnel	Laramie R.	Chambers L	24-16N-79W	8500	Roosevelt	19.8	24.4	11.5	4.6	6.1		
50 Deadman Hill*		Deadman Cr.	1-8N-75W	10200	"	"	29.5	42.2	19.9	6.8		
71 Deadman Hill #2*		Deadman Cr.	6-9N-74W	10200	"	"	25.0	34.6	15.9	5.4		
88 Roach		LaGarde Cr.	5-10N-77W	9800	"	"	35.9	43.9	30.0	8.3		
		Average for Drainage					25.7	36.3	17.1	5.1		

*On adjacent drainage

@Average for period of record

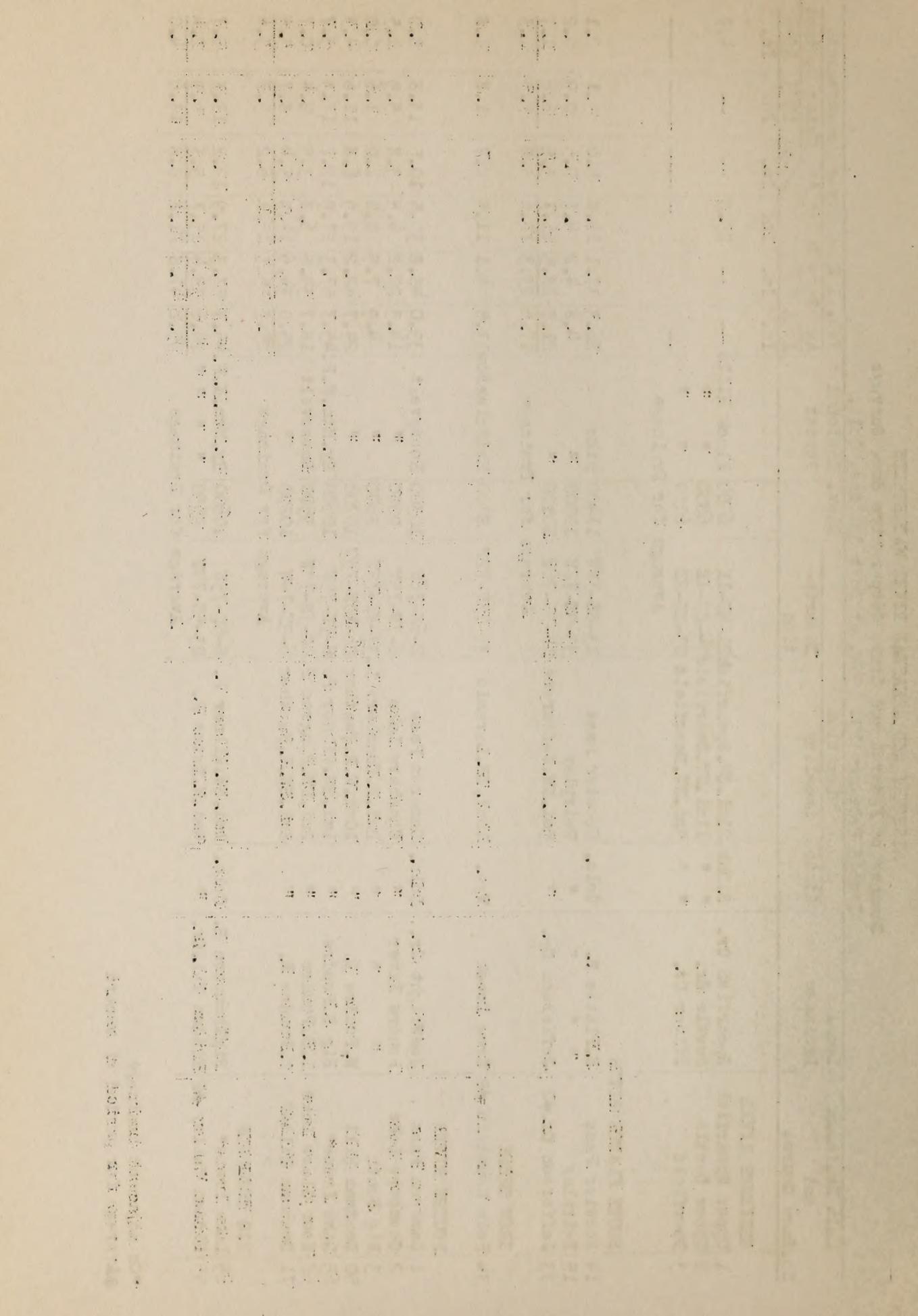


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							Forest	AV. IN.	Snow Depth	AV. IN.	Water Content	Forest	AV. IN.	Snow Depth	AV. IN.	Water Content	Forest	AV. IN.
CHEYENNE RIVER																		
1 Upper Spearfish	Spearfish Cr.	S.Dak.	21mi.SW.Spearfish	21-3N-1E		6500	Black Hills	--	--	25.8	--	--	--	4.7				
2 Upper Castle	Castle Cr.	" "	11mi.NW.Deerfield	24-2N-1E		6800	" "											
3 Deerfield	Silver Cr.	" "	3mi.NW.Deerfield	23-1N-2E	Average for Drainage	6010	" "											
SOUTH PLATTE RIVER																		
14 Hoosier Pass	S.Platte R.	Colo.	Hoosier Pass	13-8S-78W	Pike	11400		26.3	37.1	16.8	5.0	9.1	2.1					
15 Fairplay	" "	"	Fairplay	33-9S-77W	"	10000	" "	4.8	4.2	4.2	0.5	0.9	0.2					
83 Jefferson Cr.#2	Jefferson Cr.	"	5mi.NW.Jefferson	14-7S-76W	Average for Drainage	10100	" "	21.7	28.5	16.7	3.5	6.6	1.7					
CROW CREEK								17.6	23.3	12.6	3.0	5.5	1.5					
34 Pole Mountain #2	Crow Creek	Wyo.	10mi.SE.Laramie	35-15N-72W	Medicine Bow	8700	3.5	9.1	11.5	2.7	1.8	1.8						
POUDRE RIVER																		
1 Cameron Pass	Joe Wright Cr.	Colo.	Cameron Pass	2-6N-76W	Roosevelt	10300	" "	39.0	48.6	30.5	10.5	13.8	8.0					
2 Chambers Lake	Poudre River	"	Chambers Lake	6-7N-75W	" "	9000	" "	14.3	22.2	4.5	3.8	5.9	1.5					
3 Big South	"	"	2mi.E.Chambers L.	33-8N-75W	" "	8600	" "	4.9	7.5	0.0	1.0	1.6	0.0					
50 Deadman Hill	N.Poudre R.	"	10mi.W.R.Feather	26-10N-75W	" "	10200	" "	29.7	42.2	19.9	6.8	11.6	4.3					
65 Lake Irene*	Big S.Poudre	"	1mi.SW.Milner P.	8-5N-75W	Ry.Mtn.N.P.	10600	" "	45.7	57.3	27.9	12.2	17.3	5.7					
68 Hour Glass Lake	L.S.Poudre	"	2mi.NW.Pingree P.	18-7N-73W	Roosevelt	9500	" "	18.7	34.5	6.8	3.9	9.4	0.7					
71 Deadman Hill#2	N.Poudre R.	"	8mi.SW.R.Feather	6-9N-74W	" "	10200	" "	25.0	34.6	15.9	5.4	8.7	3.5					
BIG THOMPSON								25.3	35.3	15.1	6.2	9.8	3.4					
65 Lake Irene*	Big Thompson R.	Colo.	1mi.SW.Milner P.	8-5N-75W	Ry.Mtn.N.P.	10600	" "	45.7	57.3	27.9	12.2	17.3	5.7					
95 Hidden Valley #2	Hidden Val.Cr.	"	9mi.W.Estes P.	23-5N-74W	" "	9550	" "	24.6	38.4	15.7	5.3	9.9	2.4					
								35.2	47.8	21.8	8.8	13.6	4.0					

*On adjacent drainage

②Average for period of record



MISSOURI AND ARKANSAS RIVER WATERSHEDS
Summary of Federal and State Cooperative Snow Surveys
Issued February 10, 1944, at Fort Collins, Colo.

Main Drainage and Snow Course No.	Local Drainage	State:	Locality	Descrip- tion	Elev.	National Forest	Feb. 1 Snow Cover Measurements						
							Av. In.	Snow Depth In.	Av. Water Content In.	1943 In.	1944 In.	1944 Av. @ In.	
41	ST. VRAIN RIVER Wild Basin	N. St. Vrain R.	Colo.	5 mi. N. Allens P.	24-3N-74W	10000	Ry. Mtn. N. F.	26.6	41.8	15.0	6.1	12.2	2.7
5	Boulder Creek	S. Boulder Cr.	Colo.	East Portal	2-2S-74W	9400	Roosevelt	8.8	11.6	5.2	2.0	3.3	0.9
60	E. Port. Moffat T. University Camp #2	S. Boulder Cr.	Colo.	5 mi. SW. Ward	28-1N-73W	10300	"	31.9	44.4	19.3	9.0	15.5	3.7
	CLEAR CREEK			Average for Drainage		20.4		28.0	12.2	5.5		9.4	2.3
61	Loveland Pass #2	Clear Creek	Colo.	10 mi. W. Georgetown	27-4S-76W	10100	Arapaho	27.5	38.9	19.4	5.5	9.8	4.0
97	Grizzly Peak*	"	Colo.	1 mi. W. Loveland P.	2-5S-76W	11250	"	37.3	55.3	22.5	9.3	15.3	4.5
				Average for Drainage		32.4		47.1	21.0	7.4		12.6	4.2
	ARKANSAS RIVER												
19	Tennessee Pass	Tennessee Cr.	Colo.	Tennessee Pass	21-8S-80W	10200	Cochetopa	24.3	32.9	17.1	4.4	6.7	3.0
21	Twin Lakes Tun.	Lake Creek	Colo.	9 mi. W. Twin Lakes	22-11S-82W	10500	"	25.8	30.9	18.4	5.9	7.2	3.1
42	Marshall Creek*	Poncha Cr.	Colo.	Marshall Pass	24-48N-6E	10300	"	32.3	44.1	29.4	6.9	9.2	4.0
43	Poncha Creek	"	Colo.	"	19-48N-7E	10500	"	25.9	35.7	21.2	6.6	8.9	5.0
72	Whiskey Creek #2	Whiskey Cr.	Colo.	Whiskey Cr. Pass	37-2N105-2W10300	Lazwell Cr.	15.8	18.1	16.9	3.7	3.5	3.2	
74	LaVeta Pass #2*	Cuchara Cr.	Colo.	LaVeta Pass	22-28S-70W	9300	San Cristo G.	20.8	22.2	20.9	4.1	5.1	3.7
78	Four Mile Park #2	Lake Creek	Colo.	3 mi. SW. Twin L.	23-11S-61W	9700	Cochetopa	12.1	15.1	6.2	2.2	3.0	1.1
79	Fremont Pass #2	Lake Creek	Colo.	Fremont Pass	2-8S-79W	11400	Arapaho	39.0	53.4	25.2	8.0	12.4	4.6
92	Monarch Pass	E. Fork Ark. R.	Colo.	Monarch Pass	16-49N-6E	10500	Cochetopa	47.5	61.1	38.6	9.6	13.0	6.7
		S. Fork Ark. R.		Average for Drainage		27.1		34.8	21.5	5.7		7.7	3.3

*On adjacent drainage

@Average for period of record

